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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.10/KRIDL/CUBE/2013-14

14.05.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager ,** KRIDL, Bangalore.
Name of the work	: Providing Covering Slab to Existing Drains at Bloom Field Garden Ward No.10 Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/VSD/PR/4712013-14 Dated: 29.03.2014
Sample ID	: Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.04.2014	14.05.2014	8.146	479.2	21.30
2	16.04.2014	14.05.2014	8.265	485.6	21.58
3	16.04.2014	14.05.2014	8.399	510.5	22.69

Note:

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Building & Highway Material Testing Laboratory

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Job No.: CTCE/BBMP/W.No.10/KRIDL/CUBE/2013-14

15.05.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager ,** KRIDL, Bangalore.
Name of the work	: Providing Covering Slab to Existing Drains at Patel Pillagowda in Ward No.10 Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/VSD/PR/4702013-14 Dated: 29.03.2014
Sample ID	: Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.04.2014	15.05.2014	8.388	511.6	22.74
2	17.04.2014	15.05.2014	8.145	478.2	21.25
3	17.04.2014	15.05.2014	8.253	492.3	21.88

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Job No.: CTCE/BBMP/W.No.10/KRIDL/CEMENT/2014-15

Date: 10.04.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager,** KRIDL, Bangalore.
NAME OF THE WORK	:	Providing Covering Slab to existing drains at Bloom Field Garden Ward No.10 Vidyaranyapura Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/VSD/PR/471/2013-14 Dated: 29.03.2014
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 1989-2013
1	Standard Consistency	IS-4031 (Part -4)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	490 Minutes	Not More than 600 Minutes
3	Soundness by the Le-Chatelier method	IS-4031 (Part 3)	1 mm	Not more than 10 mm

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Job No.: CTCE/BBMP/W.No.10/KRIDL/SAND/2014-15 : 10.04.2014

TEST REPORT ON FINE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Providing Covering Slab to existing drains at Bloom Field Garden Ward No.10 Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/VSD/PR/471/2013-14 Dated: 29.03.2014

Date of Testing : 10.04.2014

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	55	5.50	5.50	94.5	90-100
2.36	180	18.00	23.50	76.5	75-100
1.18	156	15.60	39.10	60.9	55-90
600 Micron	185	18.50	57.60	42.4	35-59
300 Micron	165	16.50	74.10	25.9	8-30
150 Micron	180	18.00	92.10	7.9	0-10

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Job No.: CTCE/BBMP/W.No.10/KRIDL/CUBE/2014-15

14.05.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of the work	: Providing Covering Slab to existing drains at Bloom Field Garden Ward No.10 Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/VSD/PR/471/2013-14 Dated: 29.03.2014
Sample ID	: Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.04.2014	14.05.2014	8.135	483.1	21.47
2	16.04.2014	14.05.2014	8.259	495.6	22.03
3	16.04.2014	14.05.2014	8.356	526.3	23.39

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TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of the work	: Providing Covering Slab to existing drains at Bloom Field Garden Ward No.10 Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/VSD/PR/471/2013-14 Dated: 29.03.2014
Sample ID	: Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.04.2014	14.05.2014	8.295	489.3	21.75
2	16.04.2014	14.05.2014	8.365	498.6	22.16
3	16.04.2014	14.05.2014	8.472	520.5	23.13

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Reference	: AEE/VSD/PR/471/2013-14 Dated: 29.03.2014
Sample ID	: Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.04.2014	14.05.2014	8.098	479.6	21.32
2	16.04.2014	14.05.2014	8.175	503.4	22.37
3	16.04.2014	14.05.2014	8.296	519.3	23.08

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Reference	: AEE/VSD/PR/471/2013-14 Dated: 29.03.2014
Sample ID	: Drain Concrete
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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.04.2014	14.05.2014	8.135	480.6	21.36
2	16.04.2014	14.05.2014	8.259	498.6	22.16
3	16.04.2014	14.05.2014	8.375	519.6	23.09

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